

What is claimed is:

1. A thermoelectric power generating timepiece comprising a dial, a movement, and a heat conduction sheet, installed within a hermetically enclosed space, defined by a case made of metal with a glass fixedly attached thereto, and a case back, further comprising a thermoelectric element for serving as a power supply source of said movement, housed in a gap between the heat conduction sheet and said case back, wherein said case back is made of not less than two kinds of constituent materials each having a different thermal conductivity.

2. A thermoelectric power generating timepiece according to Claim 1, wherein said case back comprises a heat conducting part having a high thermal conductivity, formed in a shape larger in outer size than the thermoelectric element, and disposed opposite to the thermoelectric element, and a heat insulating part having a low thermal conductivity, formed so as to be disposed on the outside of the heat conducting part.

3. A thermoelectric power generating timepiece according to Claim 2, wherein said heat conducting part of said case back is made of a metallic material, and the heat insulating part thereof is made of plastics or ceramics.

4. A thermoelectric power generating timepiece according to Claim 3, wherein said case back is formed of the metallic material and the plastics by the insert molding method.

5. A thermoelectric power generating timepiece according to Claim 3, wherein said case back is formed by uniting said heat conducting part with said heat insulating part by securing both parts

together with screws.

6. A thermoelectric power generating timepiece according to Claim 3, wherein said case back is formed by uniting said heat conducting part with the heat insulating part by screwing threaded grooves, cut in respective joining surfaces thereof, into each other.

7. A thermoelectric power generating timepiece according to Claim 3, wherein said heat insulating part of the case back is made of plastics, and a butting surface part of the heat insulating part, facing said case, is provided with an engagement part made of metal.

8. A thermoelectric power generating timepiece according to Claim 2, wherein the heat insulating part of said case back is provided with a sloped face gently slanting towards the outer periphery thereof.

9. A thermoelectric power generating timepiece according to Claim 3, wherein the heat insulating part of said case back is provided with a sloped face gently slanting towards the outer periphery thereof.

10. A thermoelectric power generating timepiece according to Claim 8, wherein the heat conducting part of said case back is provided with a collar extended in such a way as to shield the sloped face.

11. A thermoelectric power generating timepiece according to Claim 9, wherein the heat conducting part of said case back is provided with a collar extended in such a way as to shield the sloped face.

12. A thermoelectric power generating timepiece comprising a dial, and a movement, installed within a hermetically enclosed space, defined by a case made of metal with a glass fixedly attached thereto, and a case back, further comprising a thermoelectric element for serving as a power supply source of the movement, housed in a gap between the movement and said case back through the intermediary of an upper

protection sheet and a lower protection sheet, in contact with the movement, and the case back, respectively, wherein a heat conduction sheet annular in shape, having an opening larger in size than the outside shape of said thermoelectric element, is disposed so as to be in contact with a face of the upper protection sheet, on the side in contact with the thermoelectric element, and so as to be sandwiched between the case and said case back.

13. A thermoelectric power generating timepiece according to Claim 12, wherein said heat conduction sheet is made of a metallic material.

14. A thermoelectric power generating timepiece according to Claim 12, wherein an elastic member is disposed between said lower protection sheet and said case back.

15. A thermoelectric power generating timepiece according to Claim 12, wherein an elastic member is disposed between said upper protection sheet and said movement.

16. A thermoelectric power generating timepiece according to Claim 12, wherein an elastic member is disposed between said case and said heat conduction sheet.

17. A thermoelectric power generating timepiece according to Claim 12, wherein an elastic member is disposed between said upper protection sheet and said heat conduction sheet.

18. A thermoelectric power generating timepiece according to Claim 12, wherein a spacer is disposed between said upper protection sheet and said movement.

19. A thermoelectric power generating timepiece according to Claim 12, wherein a first elastic member is disposed between said lower

protection sheet and said case back,

a second elastic member is disposed between said upper protection sheet and said movement,

5 a third elastic member is disposed between said case and said heat conduction sheet,

a fourth elastic member is disposed between said upper protection sheet and said heat conduction sheet,

and a spacer is disposed between said upper protection sheet and said movement.

10 20. A thermoelectric power generating timepiece according to Claims 14, wherein the elastic member is a compressible and heat conductive sheet having a high thermal conductivity.

21. A thermoelectric power generating timepiece according to Claim 18, wherein said spacer is made of a metallic material.

15 22. A case back for a thermoelectric power generating timepiece, defining a hermetically enclosed space together with a case made of metal with a glass fixedly attached thereto, containing a dial, a movement, and a heat conduction sheet therein, further defining an enclosed space together with the heat conduction sheet, for housing a
20 thermoelectric element serving as a power supply source of said movement therein, said case back being made of not less than two kinds of constituent materials each having a different thermal conductivity.

23. A case back for a thermoelectric power generating timepiece according to Claim 22, comprising a heat conducting part having a high
25 thermal conductivity, formed in a shape larger in outer size than the thermoelectric element, and disposed opposite to the thermoelectric element, and a heat insulating part having a low thermal conductivity,

formed so as to be disposed on the outside of the heat conducting part.

24. A case back for a thermoelectric power generating timepiece according to Claim 23, wherein the heat insulating part of said case back is provided with a sloped face gently slanting towards the outer periphery thereof.

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